

# <u> THIR UNITED STATES OF AMERICA</u>

Seminis Regetable Seeds, Inc.

DETERMS, THERE HAS BEEN PRESENTED TO THE

## Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS: OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC **REPLENISHMENT** OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE CHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR RFING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

### BEAN, FIELD

'Red Rover'

In Testimone Muercot, I have hereunto set my hand and caused the seal of the Plant Unriety Protection Office to be affixed at the City of Washington, D.C. this sixteenth day of May, in the year two thousand and eight.

Plant Variety Protection Office Agricultural Marketing Service

alward T. Scharf

# U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)				(7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).			
1. NAME OF OWNER				TEMPORARY DESIGNATION OR EXPERIMENTAL NAME	3. VARIETY NAME		
Seminis Vegetable Seeds, Inc.				EX 08520700  EX 08520700  EX 08520700  EX 08520700  EX 08520700			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)			5, 1	TELEPHONE (include area code)	FOR OFFICIAL USE ONLY		
2700 Camino del Sol			(8	805) 647-1572	PVPO NUMBER		
Oxnard, CA 93030-7967			6. 8	#2007001			
	*		(8	305) 918-2545	#200700159 FILING DATE		
7. IF THE OWNER NAMED IS NOT A "PERSON",	GIVE FORM OF	8. IF INCORPORATED, GIVE		DATE OF INCORPORATION			
ORGANIZATION (corporation, partnership, associ	dation, etc.)	STATE OF INCORPORATION		4.14000	FEBRUARY 26,2007		
Corporation		California		4 June 1962			
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First p.  Carol Miller Marcel Bruins Seminis Vegetable Seeds, Inc. Seminis Vegetable Seeds, Inc.				listed will receive all papers)	F FILING AND EXAMINATION FEES:  S 4,382.00  R DATE 2/2//07  E CERTIFICATION FEE:		
37437 State Hwy 16		Box 97, NL-6700 AB			\$ 768.00		
Woodland, CA 95695	vvager	ningen, Netherlands			E DATE 4/22 /08		
11. TELEPHONE (Include area code)	12. FAX (Include	e area code)	T	13. E-MAIL	1722708		
(530) 669-6274	(530) 669-			carol.l.miller@seminis			
14. CROP KIND (Common Name)	16. FAMILY NA	•			IN ANY TRANSGENES? (OPTIONAL)		
Field Bean	Legumir	105ae RIETY A FIRST GENERATION HYBR	2152	YES NO	SSIGNED USDA-APHIS REFERENCE NUMBER FOR THE		
15. GENUS AND SPECIES NAME OF CROP Phaseolus vulgaris L.	YES		יטוא	APPROVED PETITION TO S COMMERICALIZATION.	DEREGULATE THE GENETICALLY MODIFIED PLANT FOR		
19. CHECK APPROPRIATE BOX FOR EACH ATTA		_		20. DOES THE OWNER SPECIF	Y THAT SEED OF THIS VARIETY BE SOLD AS A CLASS		
(Follow instructions on reverse)	af tha Mariata			<u>-</u>	e Section 83(a) of the Plant Variety Protection Act)  items 21 and 22 below)  V NO (If "no", go to item 23)		
<ul> <li>a. ✓ Exhibit A. Origin and Breeding History</li> <li>b. ✓ Exhibit B. Statement of Distinctness</li> </ul>	or the variety		-	21. DOES THE OWNER SPECIF	items 21 and 22 below)		
c. Exhibit C. Objective Description of Vari	etv			NUMBER OF CLASSES?  ☐ YES			
d. Exhibit D. Additional Description of the					☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED		
e. 📝 Exhibit E. Statement of the Basis of the			ŀ		Y THAT SEED OF THIS VARIETY BE LIMITED AS TO		
f.  Exhibit F. Declaration Regarding Depo		·		YES V NO	<b>-</b> .		
g. Voucher Sample (3,000 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)				IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.			
g.  Filing and Examination Fee (\$4,382), made payable to 'Treasurer of the United States" (Mail to the Plant Vanety Protection Office)				FOUNDATION REGISTERED CERTIFIED  (If additional explanation is necessary, please use the space indicated on the reverse.)			
23. HAS THE VARIETY (INCLUDING ANY HARVES FROM THIS VARIETY BEEN SOLD, DISPOSED OTHER COUNTRIES?	TED MATERIAL) OF, TRANSFER	OR A HYBRID PRODUCED RED, OR USED IN THE U. S. OR			OMPONENT OF THE VARIETY PROTECTED BY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?		
YES V NO				✓ YES □ NO			
IF YES, YOU MUST PROVIDE THE DATE OF I FOR EACH COUNTRY AND THE CIRCUMSTA	FIRST SALE, DISF NCES. <i>(Please u</i>	POSITION, TRANSFER, OR USE se space indicated on reverse.)			TRY, DATE OF FILING OR ISSUANCE AND ASSIGNED ase use space indicated on reverse.}		
25. The owners declare that a viable sample of basi for a tuber propagated variety a tissue culture w					ccordance with such regulations as may be applicable, or		
The undersigned owner(s) is(are) the owner of t entitled to protection under the provisions of Sect	his sexually reprod ion 42 of the Plant	duced or tuber propagated plant varie Variety Protection Act.	ety, and i	believe(s) that the variety is new, dis	stinct, uniform, and stable as required in Section 42, and is		
Owner(s) is (are) informed that false representa-	tion herein can jeo	pardize protection and result in pena	ilties.				
SIGNATURE OF OWNER CALLED MU	ler)		SIGNAT	URE OF OWNER			
NAME (Please print or type)			NAME (	Please print or type)			
Carol L. Miller				TWO TIMES			
CAPACITY OR TITLE	DATE	2-Feb-07	CAPACI	ITY OR TITLE	DATE		
PVP Specialist		0-100-07					

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filling fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filling, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

**Plant Variety Protection Office** 

Telephone: (301) 504-5518

FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm #200700159

#### SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

### ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;

(3) evidence of uniformity and stability; and

- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent Application No. 11/677,423 Entitled "Dry Bean Line 08520700" by David M. Webster was filed on 21-Feb-07.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is o581-055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing date sources, gathering and maintaining the data needed, and competing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohbits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD)

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (600) 795-3272 (voice) or (202) 720-6362 (TDD). USDA is an equal opportunity provider and employer.

### **EXHIBIT A**

## Origin and Breeding History of Dark Red Kidney Bean, EX 08520700 4122108

EX 08520700 is a Dark Red Kidney variety with resistance to Aphanomyces root rot that was developed at Seminis's Western Breeding Station (WBS), Filer, Idaho, by pedigree selection from a cross of Drake, a Seminis Dark Red Kidney variety, with ZAA3MntAAK, a DRK breeding line developed at Seminis by selection for resistance to *Aphanomyces euteiches* from a backcross 1 to ZAA3 x Montcalm. ZAA3 x Montcalm was developed by pedigree selection from a cross of ZAA3, a dark red kidney breeding line received from the Centro International de Agricultura Tropical (CIAT) in 1987, with Montcalm, a commercial dark red kidney variety developed at Michigan State University. The donor parent for Aphanomyces resistance was PI209488 from the USDA plant introduction collection for Phaseolus vulgaris, received in 1996. The breeding history from the crossing that led directly to EX 08520700 is as follows:

- 9-29-98 Planted Drake and ZAA3MntAAK in the greenhouse at WBS. Crosses made
- 1-12-99 Planted the F1 from above in the greenhouse at WBS. Allowed to self pollinate.
- 6-99 Planted F2 seeds in a field, designated "Wallendahl" near Grand Marsh WI, that is severely infested with *Aphanomyces euteiches*. Selected individual plants and harvested the seed by plant.
- 10-99 Planted F3 seeds of selections from Wallendahl's in the gh at WBS, inoculated with *Aphanomyces*, transplanted 2 of 3 resistant plants from selection AK50.01.02 and allowed them to self pollinate.
- 1-26-00 Planted F4 seeds in the gh at WBS. Allowed to self pollinate.
- 6-02-00 Planted F5 in the field at WBS. Selected an individual plant based on erect plant type and uniform, heavy pod set.
- 11-00 Panted F6 in the field at the Seminis breeding station at Melipilla Chile. Harvested as a bulk.
- 6-1-01 Planted F6+1 in the field at WBS as RWG1107. Observations during the growing season indicated the line was uniform and stable. All subsequent increases of EX 08520700 trace to the bulk of RWG1107. Seminis trials at the Wallendahl infested site confirmed the root rot resistance of this line, the erect plant, a good pod set, and midseason maturity.
- 6-3-02 Space planted a part of seed-lot RWG1107 in the field at WBS as RWR2489. Harvested as 200 individual plant selections.
- 5-23-03 Planted 200 individual plant selections in the field at WBS as a progeny increase under the number RWV3424. Observations during the growing season confirmed EX 08520700 is uniform and stable.

Selection criteria since 1999 represent a balance of characteristics related to maturity, productivity and quality and to goodness to fit for market needs such as erect determinate plant, yield potential in Aphanomyces infested soil as well as soil that is relatively free of this pathogen, dark red uniform color and freedom from split seeds when canned, and midseason maturity.

Observations during the two (2) years of 2001 and 2003 confirm EX 08520700 is uniform and stable within commercially acceptable limits. As is true with other dry bean varieties a small percentage of off-types can occur within commercially acceptable limits for almost any characteristic during the course of repeated multiplication. No variants are known to occur.

### **EXHIBIT B**

Novelty Statement Concerning Dark Red Kidney Bean, EX 08520700 4/22/08

EX 08520700 is a determinate bush dark red kidney bean variety developed at the Seminis breeding station in Filer ID. To our knowledge the variety that most closely resembles EX 08520700 is the Seminis dark red variety Cabernet. The comparative characteristic that best distinguishes the two includes, but may not be limited to, resistance to the common root rot pathogen, *Aphanomyces euteiches*. EX 08520700 carries an allele for resistance to the bean strains of *A. euteiches* and is not damaged by this organism in greenhouse inoculations. Cabernet does not carry this allele and in greenhouse inoculations with *A. euteiches* develops severely rotted hypocotyls.

REPRODUCE LOCALLY, include form number and date on all reproductions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is ossinated to average 2 hours per response, including the time for reviewing instructions, searning adjusted and maintaining the date peoplet and complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, militanal origin, ege, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program [Not all prohibited bases apply to all programs.] Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2890 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an agual opportunity provider and employer.

> **U.S. DEPARTMENT OF AGRICULTURE** AGRICULTURAL MARKETING SERVICE **SCIENCE AND TECHNOLOGY** PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

Exhibit C

### **OBJECTIVE DESCRIPTION OF VARIETY** Field Bean (Phaseolus vulgaris L.)

NAME OF APPLICANT (S) Seminis Vegetable Seeds TEMPORARY OR EXPERIMENTAL DESIGNATION

EX 08520700

VARIETY NAME

ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country)

2700 Camino del Sol Oxnard, CA 93030

**PVPO NUMBER** 

#200700159

### PLEASE READ ALL INSTRUCTIONS CAREFULLY:

Provide data for all characters unless indicated as "optional". Place numbers in the boxes for the characters or numerical values that best describe this variety. Measured data should be the mean of an appropriate number of well spaced (15-20 cm) plants. The Royal Horticultural Society or any recognized color standard

may be used to determine plant color. Designate the color system used below. LOCATION OF THE TEST(S) TO EVALUATE THIS VARIETY: COLOR SYSTEM USED: 2 = MATURITY: 1. MARKET CLASS: 1 = Early (80-90 days) 2 = Medium (90-100 Days) 3 = Late (> 100 Days) CHECK 0 9 CLASS 1 = Navy (Pea) Seafarer Days from Planting to Harvest Maturity 2 = Small White Aurora O 3 = Black Midnight Heat Units from Planting to Harvest Maturity (Optional). Specify 4 = PintoUI-114 Base Temperature Used: 5 = Great Northern **UI-59** 6 = Small Red NW-59 Days from Planting to Harvest Maturity of Check Variety (Use Check 7 = Pink Viva 0 |9|4 8 = Cranberry UI-50 Appropriate to Market Class Shown in Item 1) 9 = Dark Red Kidney Montclaim 10 = Light Red Kidney Redkloud 11 = Yellow Eye Steuben 12 = Other (Specify

### 3. PLANT HABIT:

### TYPE

- 1 = la Bush-determinate, Strong and Erect Stem and Branches
- 2 = Ib Bush-determinate, Weak Stem and Branches
- lia Erect Growth Habit-indeterminate, Guides (Runners) short or not developed
- 4 = IIb Erect Growth Habit-indeterminate, Guides Medium to Long, with no Ability to Climb
- 5 = Illa Vine-indeterminate, Short Guides with no ability to Climb
- IIIb Vine-indeterminate, Long Guides with Ability to Climb
- 7 = IVa Indeterminate Climbing, Pods Distributed Throughout the
- IVb Indeterminate Climbing, Pods Concentrated on the Upper Part of the Plant

- Average Height of Mature Plant, in cm.
  - Average Height of Check Variety, in cm. (Use Same Check as Above)
  - Pod Position: 1 = Low (Lower Pods Touching Soil Surface) 2 = High (Lower Pods not Touching Soil Surface)
    - 3 = Scattered (Not Concentrated High or Low)
  - Adaptability to Machine Harvest: 1 = Adapted 2 = Not Adapted
  - Lodging Resistance: 1 = Good 2 = Fair 3 = Poor

4. LEAFLE	F MORPHOLOGY: (Use termina	al Leaflet of a Fully Expanded To	rifoliolate)		
	= Smooth 2 = Wrinkled	1 = Duli	2 = Glossy	3 = Semiglossy	4 = Variable
Shape:	1 = Ovate	2 = Lanceolate	3 = Deltoid	4 = Cordate	5 = Rhomboid
Apex of Leafler	t:	2 = Acuminate	3 = Cuspidate	4 = Obtuse	
Base of	1 = Obtuse	2 = Oblique	3 - Cordata	A - Cunanto	E - Attantivata





2 = Cream 5 = Purple

3

Color of Keel:

1 = White 4 = Blue

2 = Cream 5 = Purple

in cm.

3 = Pink

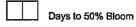
3 Color of Wings:

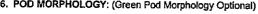
Leaflet: 3

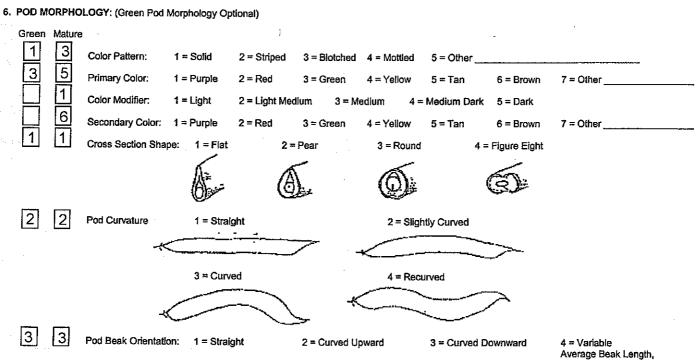
> 1 = White 4 = Blue

2 = Cream 5 = Purple

3 = Pink







3 = Deep

Average Number of Seeds per Pod

1 = None

2 = Slight

Constrictions:

. SEED COLOR:			•				001		
3 1=Shiny 2	2 = Duli 3 = 9	Semishiny 4 = Va	riable	1 1	= Monochrome	2 =	Polychrome	e*	
O7 Primary Co	olor: 1 = White 5 = Brown 9 = Blue	6 = Pink 7 = Re	ff 4 = Tan d 8 = Purple ther		olor: 5	= White = Brown = Blue	2 = Yellow 6 = Pink 10 = Black	3 = Buff 7 = Red 11 = Other	4 = Tan 8 = Purple
Color Pattern: 1	= Solid 2 = Spl = Striped 5 = Fle			1 н	ilar Ring: 1	= Absent	2 = Pre	esent	
Hilar Ring C	Color: 1 = Wh 8 = Pur		3 = Buff 10 = Black	4 = Tan 11 = Other_	5 ≃ Brown	6 = Pink		d	
. SEED SHAPE AND WE	EIGHT:								
Shape of Seed To From Middle of P		Round 2 = Ov	al 3 =	Cuboid	4 = Kidney		Truncate tigate		
	(		(			.(.	=3		
49 Dry Seed W	ر eight in g/100g Se/	الانت eds (Adjusted to 12%)	Moisture)	التخيث	<b>*</b>	<b>\_</b>			
		<u> </u>	· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·	
ANTHOCYANIN PIGME	Flowers	1 Stems		1 Pods		2 See	مام. مام		
1 = Absent	i Lioweis	Stems					us :		
z = Present	Leaves	1 Petiole		1 Padunci	laa	1 Nod			
DISEASES - COMMO	N NAME: Anthrac	nose, Rust, Powdery ! Wilt. Helo Blight, Fusc	Aildew, Fusarium	Root Rot, Pyt	thium Root Rol	, Rhizoctonia	a Root Rot, P	ythium Wilt, . Bean Com	Sclerotinia
DISEASES – COMMO White Mold, angular Le Virus, Bean Yellow Mon Reaction: 1 = S (Give the Common 2 Disease: CN_B	N NAME: Anthrac paf Spot, Bacterial salc Virus, Curly To susceptible 2 n Name (CN), Scien	Wilt, Halo Blight, Fusc op Virus, Bacterial Bro	Mildew, Fusarium ous Blight, Comr wn Spot, Bean S 3 = Tolerant Race(s), Where	n Root Rot, Pyt non Bacterial E Southern Mosai 4 = Avoi Applicable)	thium Root Rol Blight, Red Noo ic Virus, Other idance	, Rhizoctonia de Virus, Pod (Specify)	a Root Rot, P I Mottle Virus	, Bean Com	mon Mosaic
DISEASES - COMMO White Mold, angular Le Virus, Bean Yellow Mos Reaction: 1 = S (Give the Commo 2 Disease: CN B	on NAME: Anthrace af Spot, Bacterial sale Virus, Curly To Susceptible an Name (CN), Scie	Wilt, Halo Blight, Fusc op Virus, Bacterial Bro 2 = Resistant entific Name (SN), and	viildew, Fusarium ous Blight, Comr wn Spot, Bean S 3 = Tolerant Race(s), Where	n Root Rot, Pyt non Bacterial E Southern Mosai 4 = Avoi Applicable)	thium Root Root Blight, Red Noo ic Virus, Other idance	, Rhizoctonia le Virus, Por (Specify) (Specify)	a Root Rot, P I Mottle Virus gene re	, Bean Com sistance	mon Mosaic
DISEASES - COMMON White Mold, angular Le Virus, Bean Yellow Mos Reaction: 1 = S  (Give the Common Disease: CN B  Disease: CN A	N NAME: Anthrace of Spot, Bacterial sale Virus, Curly To Susceptible 20 n Name (CN), Science Common	Wilt, Halo Blight, Fuscoop Virus, Bacterial Bro 2 = Resistant entific Name (SN), and On Mosaic : SN	Mildew, Fusarium ous Blight, Comr wn Spot, Bean S 3 = Tolerant Race(s), Where	n Root Rot, Pyt non Bacterial E Southern Mosai 4 = Avoi Applicable)	thium Root Root Blight, Red Noot ic Virus, Other idance ; Ro teiches Ro	, Rhizoctonia le Virus, Por (Specify) ace(s) " " ace(s)	a Root Rot, P I Mottle Virus gene re ne know	sistance	mon Mosaic to all r
DISEASES – COMMON White Mold, angular Le Virus, Bean Yellow Mon Reaction: 1 = S  (Give the Common Disease: CN B  Disease: CN A  Disease: CN	on NAME: Anthrace af Spot, Bacterial saic Virus, Curly To Susceptible 2 on Name (CN), Science Committee Co	Wilt, Halo Blight, Fuscoop Virus, Bacterial Bro 2 = Resistant entific Name (SN), and On Mosaic; SN 5 Root Rot; SN	Mildew, Fusarium ous Blight, Comr wn Spot, Bean S 3 = Tolerant Race(s), Where	n Root Rot, Pyt non Bacterial E Southern Mosai 4 = Avoi Applicable)	thium Root Rot Blight, Red Not ic Virus, Other idance Rotelches	, Rhizoctonia le Virus, Pod (Specify) ace(s)'' '' ace(s)	a Root Rot, P I Mottle Virus gene re ne know	sistance	e to all r
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Cold

Drought

Air Pollution

ST-470-51 (02-06) designed by the Plant Variety Protection Office using Microsoft Word 2003.

Heat

2 = Resistant

4 = Avoldance

1 = Susceptible

3 = Tolerant

13. COMMENTS:

REPRODUCE LOCALLY. Include form number and edition date on all	reproductions.	FORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	Application is required in order to decertificate is to be issued (7 U.S.C.	
EXHIBIT E	confidential until the certificate is iss	
STATEMENT OF THE BASIS OF OWNERSHIP		
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Seminis Vegetable Seeds, Inc.	EX 08520700	'RED ROUER' 41221
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
2700 Camino del Sol	(805) 647-1572	(805) 918-2545
Oxnard, California 93030	7. PVPO NUMBER	
·		#200700159
8. Does the applicant own all rights to the variety? Mark an "X" in the	e appropriate block. If no, please exp	lain. YES NO
		<del></del>
9. Is the applicant (individual or company) a U.S. national or a U.S. b	ased company? If no, give name of	country. YES NO
10. Is the applicant the original owner? YES	NO if no, please answer on	e of the following:
a. If the original rights to variety were owned by individual(s), is (	are) the original owner(s) a U.S. Natio	onal(s)?
YES	NO If no, give name of cou	
b. If the original rights to variety were owned by a company(ies),	is (are) the original owner(s) a U.S. b	• •
11. Additional explanation on ownership (Trace ownership from origin	nal breeder to current owner. Use the	reverse for extra space if needed):
The variety named in this application was developed by the Seminagreement between the employee and Seminis Vegetable Seeds, I employee are assigned to the Company. No rights to such an investigation of the Company of the Seminagree are assigned to the Company.	nc., all rights to any invention, disco-	very, or development made by an
Employee (Breeder): David Webster		
Site Location: Filer, ID		•
PLEASE NOTE:		
Plant variety protection can only be afforded to the owners (not licens	ees) who meet the following criteria:	
<ol> <li>If the rights to the variety are owned by the original breeder, that penational of a country which affords similar protection to nationals of</li> </ol>	erson must be a U.S. national, nationa f the U.S. for the same genus and spe	al of a UPOV member country, or ecies.
<ol><li>If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a c genus and species.</li></ol>		
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must	meet one of the above criteria.
The original breeder/owner may be the individual or company who dir Act for definitions.	rected the final breeding. See Section	1 41(a)(2) of the Plant Variety Protection
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, control number. The valid OMB control number for this information collection is 0581-0055. including the time for reviewing the instructions, searching existing data sources, gathering a	The time required to complete this information coil	llection is estimated to average 0.1 hour per response,

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

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> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

**EXHIBIT F DECLARATION REGARDING DEPOSIT** 

	DECLARATION REGARDING DEFOSIT	
NAME OF OWNER (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	TEMPORARY OR EXPERIMENTAL DESIGNATION
Seminis Vegetable Seeds, Inc.	2700 Camino del Sol	EX 08520700
	Oxnard, CA 93030	VARIETY NAME RED ROVER 4/21/0
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY
Carol L. Miller	2700 Camino del Sot 37437 State Highway 16 Oxnard, CA 93030 Woodland, CA 95695	#20070015

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

22-Feb-07